



# Maintenance Manual USA Model Year 1972-1980

Passenger Cars Volume 1

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This Maintenance Manual contains maintenance jobs to be performed on Passenger Cars starting model year 1972 up to model year 1980.

Besides the detailed descriptions (both written and illustrated) of these jobs, all necessary checking and adjustment data as well as filling quantities, fuels, lubricants, and coolants, and information on required special tools and specified tightening torques are included.

Each individual maintenance job is assigned a number (position number) which may be found in the outer upper corner of the respective page, arranged in numerical sequence. The position number in the Maintenance Manual corresponds to the number in the Work Sheets and Maintenance Booklet so that, if necessary, when carrying out the maintenance jobs the corresponding texts and data can be immediately found.

The types or engines to which the work applies are listed below the position number. Information on the maintenance intervals during which the individual jobs should be carried out can be obtained from the tables at the beginning of the manual.

A listing of all maintenance jobs is supplied in the index which is arranged in sequence of the unit groups and respective subjects.

Daimler-Benz Aktiengesellschaft Zentralkundendienst

January 1981

# **Model designation**

	Sales Designation	Model	Engine Type Designation
sedans	220 D	115.110	615.912
	240 D	115.117	616.916
	240 D	123.123	616.912
	300 D	115.114	617.910
	300 D	123.130	617.912
	300 TD	123.190	617.912
	300 SD	116.120	617.950
	220	115.010	115.920
	230	115.017	115.951
	230	123.023	115.954
	250	114.011	130.923
	280	114.060	110.921
	280 E	123.033	110.984 <sup>1</sup> )
	280 S	108.016	130.920
	280 S	116.020	110.922
	280 SE	108.018	130.980
	280 SE	116.024	110.985 <sup>1</sup> )
	280 SEL	108.019	130.980
	280 SE 4.5	108.067	117.984
	280 SEL 4.5	108.068	117.984
	300 SEL	109.016	130.981
	300 SEL 3.5	109.056	116.981
	300 SEL 4.5	109.057	117.981
	300 SEL 6.3	109.018	100.981
	450 SE	116.032	117.983/986 <sup>1</sup> )
	450 SEL	116.033	117.983/986 <sup>1</sup> )
	6.9	116.036	100.985 <sup>1</sup> )
	600	100.012	100.980
	600 long 4 doors	100.014	100.980
	600 long 6 doors	100.016	100.980
Coupés	250 C	114.023	130.923
	280 C	114.073	110.921
	280 CE	123.053	110.984
	280 SE	111.024	130.980
	280 SE 3.5	111.026	116.980
	300 CD	123.150	617.912
	450 SLC	107.024	117.982/985 <sup>1</sup> )
Convertibles	280 SE	111.025	130.980
	280 SE 3.5	111.027	116.980
Roadster	280 SL	113.044	130.983
	450 SL	107.044	117.982/985 <sup>1</sup> )

 $<sup>^{1}</sup>$ ) Engines with CIS (continuous injection system)

ne, mechanical (00–20)		Job	Ν
Compression pressure, check			7
Cooling water level, check and correct			9
Cylinder head bolt, retighten			7
Engines 100.980/981			
114 130		752.3	
Engine oil change with filter care			
Engines 100.980/981		151.05	
100.985		151.10	
110		151.15	
114 130 180		151.20	
115		151.25	
116 117		151.30	
615 616 617 up to model year 1976		151.35	
616 617 starting model year 1977		151.41	
, , , , , , , , , , , , , , , , , , , ,		151.45	
617.950 starting model year 1978			
Heating and venting system, check sealing			
Hose clamps, check for tight fit			
Renewing coolant with anti-freeze			
Supplementary oil filter for hydraulic fan coupling, clean			
Valve clearance, adjust			
Engines 100 116 117			
110		753.3	
115 130		753.5	
615 616 617		753.7	
V-belts, check condition and tension			
V-belts, retension			
Engines 100.980	page	756.05	j
100.981		756.10	)
100.985		756.16	j
110 model year 1973—1976		756.21	ı
starting model year 1977		756.23	3
114 130		756.29	)
115 model year 1972—1974		756.35	5
model year 1975—1976		756.36	ò
starting model year 1977		756.37	7
116 117		756.55	;
615 616 617 model year 1972–1976		756.70	)
starting model year 1977		756.71	j
starting February 1979		756.72	
.617.950 starting model year 1978		756.75	
V-belts, check condition and retension, all engines, model year 1980			•
Slacken engine stop and tighten screws			
Slacken engine stop			

Note: The figures in ( ) next to the titles are group numbers  $% \left( 1\right) =\left( 1\right) \left( 1\right$ 



Job No.

incl. control linkage, ignition, intake, fuel and exhaust system Air filter element, clean Air filter element, clean Air filter element, clean Air injection, check, model year 1980 Air injection, check, model year 1974 Begin of delivery, checking, Engines 616 Begin of delivery, checking, Engines 616 Begin of delivery, checking, Engines 616 Contact breaker points, renew Archardst	ngine, combustion (07/09/47/49)			
Air filter element, replace, model year 1974	incl. control linkage, ignition, intake, fuel and exhaust system			
Air injection, check, model year 1974  Begin of delivery, checking, Engines 616 617  Carburetor flange, retighten  77  Carburetor flange, retighten  78  Contact breaker points, renew  77  Dwell angle, check  78  Dwell angle and ignition timing, adjust  78  Dwell angle and ignition timing, adjust  78  Dwell angle and ignition timing, adjust  78  Description ontrol linkage and control shafts, lubricate  81  Engine control linkage, check  81  Exhaust gas recycling, check, model year 1973/1974  78  Exhaust gas turbo charger, retighten nuts  87  Exhaust system, retighten slip joints  Filter of auxiliary air valve, replace  Flame guard filament, clean  76  Fuel evaporation system in engine compartment, check, model year 1974  76  Fuel filter, clean/replace  84  Fuel filter of filter element, replace  Fuel filter of filter element, replace  Fuel main filter, clean/replace  84  Fuel filter of filter element, replace  Fuel pump, clean strainer  Fuel pump, clean strainer  Fuel pymp, clean strainer  Fuel system, check condition and sealing  Heater flaps, clean and spray  Idle speed adjustment, check and adjust  Engine 100.985 110.984/985 117.984/986  with CIS (continuous injection system) up to model year 1979;  (model year 1980 see Job No. 799)  100  130  798.30  110 with Solex carburetor 4 A 1  798.35  Engines 615 616 617 up to model year 1979  (model year 1980 see Job No. 799)  798.40  116 117 with electronically controlled gasoline injection system  798.55  Engines 615 616 617 up to model year 1979  798.15  Engines 616 617.912 model year 1980  798.17  Idle speed, check and readjust, model year 1979  798.15  Engines 616 617.912 model year 1980  798.17  Idle speed, check and readjust, model year 1980  798.17  Idle speed, check and readjust, model year 1980  798.17  Idle speed, check and readjust, model year 1980  798.17  Idle speed, check and readjust, model year 1980  798.17  Idle speed, check and readjust, model year 1980  798.17  Idle speed, check and readjust, model year 1980  798.17  Idle speed, check and readjust,	Air filter element, clean			202
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Carburetor flange, retighten	Air injection, check, model year 1974			769
Catalyst, replace         76           Contact breaker points, renew         77           Dwell angle, check         78           Dwell angle and ignition timing, adjust         78           Engine control linkage and control shafts, lubricate         411           Engine control linkage, check         811           Exhaust gas recycling, check, model year 1973/1974         76           Exhaust system, retighten slip joints         95           Filter of auxiliary air valve, replace         80           Flame guard filament, clean         76           Fuel evaporation system in engine compartment, check, model year 1974         76           Fuel filter, clean/replace         84           Fuel filter element, replace         84           Fuel filter of filter element, replace         84           Fuel lines and hoses of electronically controlled fuel injection system, check for tight fit         89           Fuel pump, clean strainer         85           Fuel pump, renew strainer         85           Fuel pump, renew strainer         85           Fuel system, check condition and sealing         94           Heater flaps, clean and spray         78           Idle speed, check and adjust         79           Check with CO measuring instrument and adjust	Begin of delivery, checking, Engines 616 617			787
Contact breaker points, renew 777 Dwell angle, check 778 Dwell angle and ignition timing, adjust 778 Engine control linkage and control shafts, lubricate 418 Engine control linkage, check 776 Exhaust gas recycling, check, model year 1973/1974 776 Exhaust gas recycling, check, model year 1973/1974 776 Exhaust gas trubo charger, retighten nuts 87 Evel evaporation system in engine compartment, check, model year 1974 77 Evel filter clean/replace 84 Evel filter element, replace 84 Evel lines and hoses of electronically controlled fuel injection system, check for tight fit 89 Evel main filter, clean/replace 84 Evel pump, clean strainer 85 Evel system, check condition and sealing 94 Heater flaps, clean and spray 78 Idle speed adjustment, check and adjust 97 Idle speed adjustment, check and adjust 97 Idle speed adjustment, check and adjust 97 Engine 100.985 110.984/985 117.985/986 with CIS (continuous injection system) up to model year 1979; (model year 1980 see Job No. 799) 98 100 130 788.30 110 with Solex carburetor 4 A 1 788.35 115 with Stromberg carburetor 98.55 Engine 615 616 617 up to model year 1980 97 128.55 Engines 616 617-912 model year 1980 97 138.55 Engines 616 617-912 model year 1980 97 140 speed, check and readjust, model year 1980 97 150 check without CO measuring instrument and adjust 98.17 151 Engine 617.950 model year 1980 97 152 check and readjust, model year 1980 97 153 check without	Carburetor flange, retighten			876
Dwell angle, check   78	Catalyst, replace			76
Dwell angle and ignition timing, adjust Engine control linkage and control shafts, lubricate Engine control linkage, check Exhaust gas recycling, check, model year 1973/1974 Exhaust gas turbo charger, retighten nuts Exhaust gas turbo charger, retighten nuts Exhaust system, retighten slip joints Filter of auxiliary air valve, replace Spilter of auxiliary air valve, replace Flame guard filament, clean Fuel evaporation system in engine compartment, check, model year 1974 Fuel filter, clean/replace Fuel filter, clean/replace Fuel filter of filter element, replace Fuel filter of filter element, replace Fuel main filter, clean/replace Fuel prefilter, check Fuel system, check condition and sealing Heater flaps, clean and spray Idle speed adjustment, check and adjust Engine 100.985 110.984/985 117.985/986 With CIS (continuous injection system) up to model year 1979; (model year 1980 see Job No. 799)  100 130 798.30 110 with Solex carburetor 4 A 1 798.55 Engines 616 617.912 model year 1980 798.15 Engines 616 617.912 model year 1980 798.16 Engine 101.17 model year 1980 Idle speed, check and readjust, model year 1979. Fuel prefiler, check and readjust, model year 1980 798.17 Idle speed, check and readjust, model year 1980 798.17 Idle speed, check and readjust, model year 1980 798.17 Idle speed, check and readjust, model year 1980 798.17 Idle speed, check and readjust, model year 1980 798.17 Idle speed, check and readjust, model year 1980 798.17 Idle speed, check and readjust, model year 1980 798.17 Idle speed, check and adjust, model year 1980 798.17 Idle speed, check and adjust, model year 1980 798.17 Idle speed, check and adjust, model year 1980 798.17 Idle speed, check and adjust, model year 1980 799. Idling speed sabilization, check, model year 1980 799. Idling speed sabilization, check, model year 1980 799. Idling speed sabilization, check, model year 1980	Contact breaker points, renew			773
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Flame guard filament, clean Fuel evaporation system in engine compartment, check, model year 1974 76. Fuel evaporation system in engine compartment, check, model year 1974 76. Fuel filter, clean/replace 84. Fuel filter element, replace 84. Fuel filter or filter element, replace 84. Fuel lines and hoses of electronically controlled fuel injection system, check for tight fit 89. Fuel main filter, clean/replace 84. Fuel prefilter, check 84. Fuel premp, clean strainer 85. Fuel pump, clean strainer 85. Fuel system, check condition and sealing 96. Heater flaps, clean and spray 97. Idle speed adjustment, check and adjust 87. Idle speed, check and adjust 87. In 10.0985 87. In 10.984/985 87. In 11.984/985 87. In 11.984/985 87. In 11.984/985 87. In 11.984/985 88. In 1	Exhaust system, retighten slip joints			95
Flame guard filament, clean Fuel evaporation system in engine compartment, check, model year 1974 76. Fuel evaporation system in engine compartment, check, model year 1974 76. Fuel filter, clean/replace 84. Fuel filter element, replace 84. Fuel filter or filter element, replace 84. Fuel lines and hoses of electronically controlled fuel injection system, check for tight fit 89. Fuel main filter, clean/replace 84. Fuel prefilter, check 84. Fuel premp, clean strainer 85. Fuel pump, clean strainer 85. Fuel system, check condition and sealing 96. Heater flaps, clean and spray 97. Idle speed adjustment, check and adjust 87. Idle speed, check and adjust 87. In 10.0985 87. In 10.984/985 87. In 11.984/985 87. In 11.984/985 87. In 11.984/985 87. In 11.984/985 88. In 1	Filter of auxiliary air valve, replace			806
Fuel evaporation system in engine compartment, check, model year 1974 Fuel filter, clean/replace Fuel filter element, replace Fuel filter or filter element, replace Fuel lines and hoses of electronically controlled fuel injection system, check for tight fit Fuel main filter, clean/replace Fuel main filter, clean/replace Fuel pump, clean strainer Fuel pump, clean strainer Fuel pump, clean strainer Fuel system, check condition and sealing Heater flaps, clean and spray Fuel system, check condition and sealing Fuel system, check and adjust Fuel speed, check and speed sp				
Fuel filter element, replace       844         Fuel filter or filter element, replace       844         Fuel lines and hoses of electronically controlled fuel injection system, check for tight fit       89         Fuel main filter, clean/replace       84         Fuel prefilter, check       84         Fuel pump, clean strainer       85         Fuel pump, clean strainer       85         Fuel system, check condition and sealing       04         Heater flaps, clean and spray       78         Idle speed adjustment, check and adjust       79         Idle speed, check and adjust       79         check with CO measuring instrument and adjust       79         Engine       100.985       110.984/985       117.985/986         with CIS (continuous injection system) up to model year 1979;       (model year 1980 see Job No. 799)       page 798.20         100       130       798.35         115       with Stromberg carburetor 4 A 1       798.35         116       117       with electronically controlled gasoline injection system       798.50         130       with Zenith carburetor       798.55         Engines 615       616       617       up to model year 1979       798.15         Engines 616       617.912       model year 1980 <td>Fuel evaporation system in engine compartment, check, model year 1974</td> <td></td> <td></td> <td>764</td>	Fuel evaporation system in engine compartment, check, model year 1974			764
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Fuel main filter, clean/replace       848         Fuel prefilter, check       844         Fuel pump, clean strainer       857         Fuel pump, renew strainer       857         Fuel system, check condition and sealing       047         Heater flaps, clean and spray       788         Idle speed adjustment, check and adjust       798         check with CO measuring instrument and adjust       798         check with CO measuring instrument and adjust       857         Engine       100.985 110.984/985 117.985/986         with CIS (continuous injection system) up to model year 1979;       (model year 1980 see Job No. 799)       page 798.20         100       130       798.30         110       with Solex carburetor 4 A 1       798.35         115       with Stromberg carburetor       798.40         116       117       with electronically controlled gasoline injection system       798.50         130       with Zenith carburetor       798.55         Engines 615       616       617 up to model year 1979       798.15         Engines 616       617.912       model year 1980       798.16         Engine 617.950       model year 1980       798.17         Idle speed, check and readjust, model year 1980       798.17	Fuel filter or filter element, replace			840
Fuel prefilter, check       844         Fuel pump, clean strainer       857         Fuel pump, renew strainer       856         Fuel system, check condition and sealing       04         Heater flaps, clean and spray       788         Idle speed adjustment, check and adjust       798         Idle speed, check and adjust       798         check with CO measuring instrument and adjust       798         Engine       100.985       110.984/985       117.985/986         with CIS (continuous injection system) up to model year 1979;       (model year 1980 see Job No. 799)       page       798.20         100       130       798.30         110       with Stromberg carburetor 4 A 1       798.35         115       with Stromberg carburetor       798.40         116       117       with electronically controlled gasoline injection system       798.50         130       with Zenith carburetor       798.55         Engines 615       616       617       up to model year 1979       798.15         Engines 616       617.912       model year 1980       798.16         Engine 617.950       model year 1980       798.17         Idle speed, check and readjust, model year 1980       798.17         Idle speed, check an	Fuel lines and hoses of electronically controlled fuel injection system, check for tight fit			891
Fuel pump, clean strainer       857         Fuel pump, renew strainer       852         Fuel system, check condition and sealing       047         Heater flaps, clean and spray       788         Idle speed adjustment, check and adjust       797         Idle speed, check and adjust       798         check with CO measuring instrument and adjust       857         Engine 100.985 110.984/985 117.985/986       858         with CIS (continuous injection system) up to model year 1979;       988.20         (model year 1980 see Job No. 799)       988.20         100 130       798.30         110 with Solex carburetor 4 A 1       798.35         115 with Stromberg carburetor       798.40         116 117 with electronically controlled gasoline injection system       798.50         130 with Zenith carburetor       798.55         Engines 615 616 617 up to model year 1979       798.15         Engines 616 617.912 model year 1980       798.16         Engine 617.950 model year 1980       798.17         Idle speed, check and readjust, model year 1980       798.17         Idle speed, check and readjust, model year 1980       798.17         Idling speed stabilization, check, model year 1972       793         Ignition change-over, check       774	Fuel main filter, clean/replace			845
Fuel pump, renew strainer       852         Fuel system, check condition and sealing       044         Heater flaps, clean and spray       785         Idle speed adjustment, check and adjust       795         Idle speed, check and adjust       796         check with CO measuring instrument and adjust       798         Engine       100.985 110.984/985 117.985/986         with CIS (continuous injection system) up to model year 1979;       (model year 1980 see Job No. 799)       page 798.20         100 130       798.30         110 with Solex carburetor 4 A 1       798.35         115 with Stromberg carburetor       798.40         116 117 with electronically controlled gasoline injection system       798.50         130 with Zenith carburetor       798.55         Engines 615 616 617 up to model year 1979       798.15         Engines 616 617.912 model year 1980       798.16         Engine 617.950 model year 1980       798.17         Idle speed, check and readjust, model year 1980       798.17         Idling speed stabilization, check, model year 1972       793         Ignition change-over, check       774         Ignition timing, check and adjust       772	Fuel prefilter, check			844
Fuel system, check condition and sealing	Fuel pump, clean strainer			851
Fuel system, check condition and sealing	Fuel pump, renew strainer			852
Idle speed adjustment, check and adjust 795 Idle speed, check and adjust 795 Idle speed, check and adjust 795 check with CO measuring instrument and adjust 795 Engine 100.985 110.984/985 117.985/986 with CIS (continuous injection system) up to model year 1979; (model year 1980 see Job No. 799) page 798.20 100 130 798.30 110 with Solex carburetor 4 A 1 798.35 115 with Stromberg carburetor 798.40 116 117 with electronically controlled gasoline injection system 798.50 130 with Zenith carburetor 798.55 Engines 615 616 617 up to model year 1979 798.15 Engines 616 617.912 model year 1980 798.16 Engine 617.950 model year 1980 798.17 Idle speed, check and readjust, model year 1980 Idling speed stabilization, check, model year 1972 793 Ignition change-over, check 774 Ignition timing, check and adjust 772	Fuel system, check condition and sealing			041
Idle speed, check and adjust check with CO measuring instrument and adjust Engine 100.985 110.984/985 117.985/986 with CIS (continuous injection system) up to model year 1979; (model year 1980 see Job No. 799) 100 130 110 with Solex carburetor 4 A 1 798.35 115 with Stromberg carburetor 798.40 116 117 with electronically controlled gasoline injection system 798.50 130 with Zenith carburetor 798.55 Engines 615 616 617 up to model year 1979 Engine 617.950 model year 1980 Fingine 617.950 model year 1980 Check without CO measuring instrument and adjust Engine 110 117 model year 1980 Idling speed stabilization, check, model year 1972 Ignition timing, check and adjust 772 Ignition timing, check and adjust 772 Ignition timing, check and adjust 772	Heater flaps, clean and spray			785
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Ignition change-over, check				793
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Brake discs, check; brake discs and air ducts, clean (refer to job No. 712)	
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# **Maintenance Chart Model Years 1977–1979**

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## **Maintenance Chart Model Years 1977-1979**

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Job. No.	1. Inspection at 300–600 miles	2. Inspection at 6,000 miles	Lubrication and brake inspection – every 6,000 miles	Maintenance - every 12,500 miles	Additionally every 37,500 miles	1. Inspection at 300–600 miles	2. Inspection at 6,000 miles	Lubrication and brake inspection – every 6,000 miles	Maintenance - every 12,500 miles	Additionally every 37,500 miles	1. Inspection at 300-600 miles	2. Inspection at 6,000 miles	Lubrication and brake inspection – every 6,000 miles	Maintenance – every 12,500 miles	Additionally every 37,500 miles	1. Inspection at 300–600 miles	2. Inspection at 6,000 miles	Maintenance - every 12,500 miles	Additionally every 37,500 miles
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This job is to be carried out once a year, preferably in spring
 Only model 123.033
 Only models 123.033 and 116.024 with California emission control system. This job is to be carried out once at 37,500 miles
 This job is to be carried out every two years

# **Maintenance Chart Model Years 1977–1979**

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### Maintenance Chart Model Years 1977-1979

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b. No.	1. Inspection at 300-600 miles	2. Inspection at 4,000 miles	Lubrication every 4,000 miles	Maintenance - every 12,500 miles	Additionally every 37,500 miles	1. Inspection at 300–600 miles	2. Inspection at 6,000 miles	Lubrication and brake inspection every 6,000 miles	Maintenance - every 12,500 miles	Additionally every 37,500 miles	1. Inspection at 300–600 miles	2. Inspection at 3,000 miles	Lubrication - every 3,000 miles	Lubrication and brake inspection – every 6,000 miles	Maintenance - every 12,500 miles	Additionally every 37,500 miles	1. Inspection at 300-600 miles	2. Inspection at 3,000 miles	Lubrication - every 3,000 miles	Lubrication and brake inspection – every 6,000 miles	Maintenance - every 12,500 miles	Additionally every 37 500 miles		
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This job is to be carried out yearly if possible in spring
 This job is only to be carried out at 12.500 miles
 This job is only to be carried out every 2 years
 This model is no longer sold as of model year 1979

Engines with breakerless transistorized ignition
 Except engines with breakerless transistorized ignition